

WHAT IS CLAIMED IS:

1. A sealing plug (10) for a watertight connector (20), the sealing plug (10) being formed with at least one wire insertion hole (11) through which a wire (40) is to be inserted, and being at least partly insertable into a cavity (24) of a connector housing (21) to provide a watertight sealing between an inner wall of the cavity (24) and the wire (40), wherein:

a frictional resistance between the inner wall of the cavity (24) and the sealing plug (10) is larger than a frictional resistance between the wire (40) and the sealing plug (10), and

the frictional resistance between the wire (40) and the sealing plug (10) is set to permit a movement of the wire (40) relative to the sealing plug (10) when the wire (40) is caused to move.

2. The sealing plug (10) of claim 1, wherein at least one outer lip (12) is formed on an outer surface of the sealing plug (10) for contact with the inner wall of the cavity (24) and at least one inner lip (13) is formed on an inner surface of the sealing plug (10) for contact with the wire (40).

3. The sealing plug (10) of claim 2, wherein a degree of deformation of the outer lip (12) when the sealing plug (10) is inserted into the cavity (24) is larger than a degree of deformation of the inner lip (12).

4. The sealing plug of claim 3, wherein there are more of the outer lips (12) than the inner lips (13) so that a total frictional resistance between the inner wall of the cavity (24) and the outer lips (12) exceeds a total frictional resistance between the wire (40) and the inner lips (13).

5. The sealing plug of claim 2, wherein the outer lips (12) and the inner lips (13) are substantially aligned.

6. The sealing plug (10) of claim 1, wherein a fine embossed pattern (Q) is formed on at least part of a contact surface of the sealing plug (10) with the inner surface of the cavity (24).

7. The sealing plug (10) of claim 1, wherein an outer contact surface of the sealing plug (10) with the cavity (24) is made of a material having a higher specific frictional resistance than an inner contact surface of the sealing plug (10) with the wire (40).

8. A watertight connector (20) comprising a housing (21) having at least one cavity (24) into which a sealing plug (10) of claim 1 is insertable.

9. The watertight connector of claim 8, wherein a mirror finish is applied to at least part of the inner wall of the cavity (24).

10. The watertight connector of claim 8, wherein a terminal fitting (30) is connected to the wire (40) in overlapping relationship to the sealing plug (10).